BILL NO. S-90-03-04

SPECIAL ORDINANCE NO. S-67-90

AN ORDINANCE approving the awarding of Reference #1410 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and **MOTOROLA C&E, INC.** for the Fort Wayne Communications Department.

**NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;**

**SECTION 1.** That Reference #1410 between the City of Fort Wayne, by and through its Department of Purchasing and **MOTOROLA C & E, INC.** for the Fort Wayne Communications Department, respectfully for:

> the purchase of portable two (2) way radios for various departments through the Fort Wayne Communications Department;

involving a total cost of One Hundred Twenty-Five Thousand and no/100+/- Dollars ($125,000.00+/-), all as more particularly set forth in said Reference #1410, which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

**SECTION 2.** That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Councilmember

APPROVED AS TO FORM
AND LEGALITY

J. Timothy McCaulay, City Attorney

| | |
|---|---|
| REF. NO.: | 1410 |
| DEPT.: | COMMUNICATIONS |
| DATE: | 3/6/90 |
| ITEM/SERV.: | TWO (2) WAY RADIOS |

PURCHASING INFORMATION

| | |
|---|---|
| ADVERTISED BID: | YES |
| DATES ADVERTISED: | 1/8/90 & 1/15/90 |
| OPENING DATE: | 2/1/90 |
| WRITTEN QUOTE: | |
| DUE DATE: | |
| VERBAL QUOTE: | |
| SINGLE SOURCE: | |
| NO. OF VENDORS NOTIFIED: | 7 |
| NO. OF VENDORS RECEIVING BID: | 5 |
| NO. OF VENDORS RETURNING BID: | 2 |
| NO. OF VENDORS DISQUALIFIED: | 0 |
| NO. OF VENDORS NOT RESPONDING: | 5 |
| DATE SENT TO DEPT FOR RECOMM.: | 2/1/90 |
| DATE RECOMMENDATION REC'D IN PURCH: | 3/5/90 |

| COUNCIL INFORMATION | DATES SENT | EXTENSION DATES |
|---|---|---|
| DATE INFO SENT TO LAW DEPT.: | 3/6/90 | |
| INTRODUCTION DATE: | 3/13/90 | |
| DISCUSSION DATE: | 3/20/90 | |
| PASSAGE DATE: | 3/27/90 | |
| ORDINANCE NO.: | | |

AMOUNT APPROVED AND/OR SPENT
LAST YEAR: (IF APPLICABLE)

## NORMAL AND PRIOR APPROVAL INTRODUCTION

THIS FORM IS TO BE COMPLETED FOR ANY PROJECT REQUIRING JUSTIFICATION AT CITY COUNCIL. THIS COMPLETED FORM IS TO BE IN THE OFFICE OF THE DEPARTMENT OF PURCHASES NO LATER THAN 12:00 NOON ON THE TUESDAY OF INTRODUCTION.

BID NUMBER: 1410 DESCRIPTION OF ITEM OR SERVICE: Portable 2 way radios

AWARD TO: Motorola C & E AMOUNT: $125,000.00 (approximately)

WAS/~~WAS NOT~~ XXXXXXXX LOWEST AND MOST RESPONSIBLE OF 2 BIDDERS. IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

DESCRIPTION OF PROJECT: (BE SPECIFIC AND QUANTIFY) Public Safety (Fire, Police, Comm.) portables - 73, Humane Shelter - 8 , Anticipated misc. purchases from other departments (Water, Sewer, etc.) - 30

IF REPLACEMENT, WHAT NECESSITATES: Age of radio, lack of replacement parts, provisions for additional channels, ID & emergency functions, move of Humane shelter to UHF

PURCHASE WILL BENEFIT _____ RESIDENTIAL _____ COMMERCIAL PROPERTIES

SOURCE OF REQUEST: Communications SOURCE OF FUNDING: Communications - $100,000.00
Individual department $25,000

WHAT ARE THE IMPLICATIONS IF PURCHASE IS NOT APPROVED: Radios not working due to lack of parts, wear and tear, etc.

IF PRIOR APPROVAL IS BEING REQUESTED, JUSTIFY THE NEED:

PREPARED BY: David Hayhurst DATE: 3/5/90

ATTACH COMMENT SHEET IF NECESSARY

REFERENCE NO. 1410
PORTABLE RADIOS
COMMUNICATIONS
2/5/90

| ITEM | GE MOBILE | MOTOROLA |
|---|---|---|
| 16 CHANNEL VHF RADIO | $899.00 | $842.00 |
| SPEAKER | $108.50 | $60.00 |
| SPARE BATTERY | $70.00 | $43.70 |
| CARRY CASE LEATHER | $28.70 | $43.00 |
| CARRY CASE OTHER | $10.50 | $14.00 |
| 16 HR DESK CHARGER | $56.70 | $22.00 |
| 1 OR 3 HR DESK CHARGER | $148.05 | $86.00 |
| MULTIPLE UNIT CHARGER | $340.20 | $507.00 |
| VEHICULAR CHARGER | N/A | $177.00 |
| VEHICULAR CHARGE PACK | $346.50 | $345.00 |
| ID | INCLUDED | $150.00 |
| SOFTWARE | $187.50 | $200.00 |
| INTERFACE | $81.00 | $404.00 |
| 6 CHANNEL UHF RADIO | $972.00 | $628.00 |
| SPEAKER | $108.50 | $60.00 |
| SPARE BATTERY | $70.00 | $44.19 |
| CARRY CASE LEATHER | $28.70 | $43.00 |
| CARRY CASE OTHER | $10.70 | $14.00 |
| 16 HR DESK CHARGER | $56.70 | $22.00 |
| 1 OR 3 HR DESK CHARGER | $148.05 | $86.00 |
| MULTIPLE UNIT CHARGER | $340.20 | $507.00 |
| VEHICULAR CHARGER | N/A | $177.00 |
| VEHICULAR CHARGE PACK | N/A | $345.00 |
| SOFTWARE | $143.00 | $200.00 |
| INTERFACE | $101.00 | $405.00 |
| 6 CHANNEL VHF RADIO | $899.00 | $558.00 |
| SPEAKER | $108.50 | $60.00 |
| SPARE BATTERY | $70.00 | $44.19 |
| CARRY CASE LEATHER | $28.70 | $43.00 |
| CARRY CASE OTHER | $10.50 | $14.00 |
| 16 HR DESK CHARGER | $56.70 | $22.00 |
| 1 OR 3 HR DESK CHARGER | $148.05 | $86.00 |
| MULTIPLE UNIT CHARGER | $340.20 | $507.00 |
| VEHICULAR CHARGER | N/A | $177.00 |
| VEHICULAR CHARGE PACK | $346.50 | $345.00 |
| SOFTWARE | $187.50 | $200.00 |
| INTERFACE | $81.00 | $405.00 |

DAVE, DID NOT INCLUDE ANY OPTIONS ON THIS SHEET

FRONT PAGE/INVITATION TO BID
DEPARTMENT OF PURCHASING
CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA
ONE MAIN STREET - ROOM 350
PHONE 219-427-1101

BID OPENING DATE 2-01-90 @ 11:00AM BID REFERENCE # 1410

SEALED BIDS SHOULD BE DELIVERED TO DEPARTMENT OF PURCHASING, ROOM 350, CITY-COUNTY BUILDING UP TO 11:00 A.M. ON OR BEFORE OPENING DATE.

SEALED BIDS WILL BE OPENED PUBLICLY AT 11:01 A.M. IN THE BOARD OF WORKS & SAFETY CONFERENCE ROOM ON THE THIRD FLOOR OF THE CITY-COUNTY BUILDING. "NO LATE BIDS WILL BE ACCEPTED AFTER 11:00 A.M. FOR ANY REASON WHATSOEVER".

THIS INVITATION FOR BID IS FOR (68) +/- PORTABLE RADIOS FOR VARIOUS CITY DEPARTMENTS FOR 1990 PER SPECIFICATIONS.

AND REQUESTED BY F W COMMUNICATIONS DEPARTMENT

THIS BID REQUIRES A XXXXX 5% BID BOND, CERTIFIED OR CASHIER'S CHECK OF ALL BIDDERS.

THIS BID REQUIRES A _____ 100% PERFORMANCE BOND OF SUCCESSFUL BIDDER(S).

PROMPT PAYMENT DISCOUNTS WILL BE ALLOWED AS FOLLOWS: _____% IF PAID WITHIN _____ DAYS.

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY THE CITY OF FORT WAYNE WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH ACCOMPANYING SPECIFICATIONS.

THE EXECUTION HEREOF BY THE BIDDER IS ACCEPTANCE OF ALL TERMS AND CONDITIONS HEREIN AND IN THAT REGARD THE BIDDER AGREES TO BE BOUND BY SAME AND BE BOUND TO THE AMOUNT OF HIS/HER BID FOR A PERIOD OF NINETY (90) DAYS.

FIRM NAME MOTOROLA C&E, INC.

STREET ADDRESS PO BOX 40011

CITY FORT WAYNE, IN 46804 PHONE # 436-3338

BY Danielle J. Klaus
REPRESENTATIVE SIGNATURE

Prescribed by the State Board of Accounts

Form No. 95 (Revised 1987)

# BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

(Defined at I.C. 36-1-2-9.5)
(Please type or print)

Date: 2-1-90

1. Governmental Unit: City of Fort Wayne
2. County: ALLEN
3. Bidder (Firm): ~~MOTOROLA C&E, INC.~~
   Address: ~~PO BOX 40011~~
   City/State: FORT WAYNE, IN 46804
4. Telephone Number: 436-3338
5. Agent of Bidder (If applicable):

Pursuant to notices given, the undersigned offers bid(s) to City of Ft. Wayne (Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

Signature of Bidder or Agent

## BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body. Following is an example of the bid format:

| Class or Item | Quantity | Unit | Description | Unit Price | Amount |
|---|---|---|---|---|---|
| | | | | | |

SEE ATTACHED

## NON-COLLUSION AFFIDAVIT

STATE OF INDIANA )
) SS:
ALLEN COUNTY )

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of ~~such~~ sale.

MOTOROLA C&E, INC.
Bidder (Firm)

Signature of Bidder or Agent

Subscribed and sworn to before me this 11 day of January, 1990

My Commission Expires: 7-4-91

County of Residence: Allen

Notary Public

SARAH J. ASHLEY
Notary Public Printed Name

## ACCEPTANCE

There now being sufficient unobligated appropriated funds available, the contracting authority of _____ (Governmental Unit) hereby accepts the terms of the attached bid for classes or items numbered _____ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

Date: _____

Contracting Authority Members:

_____ _____
_____ _____
_____ _____

The portable radios requested in this bid will be used by the Police, Fire, Animal Control and other City Departments. This request for bids will be divided into radios that have greater than 6 channels primarily for use in the Public Safety Departments and those with 6 channels for use by other Departments where it would be more cost effective. There will be an initial purchase of approximately 60 VHF portables for Police and Fire (16 channel radios) and 8 UHF portables (6 channel) for Animal Control. After that initial purchase, purchases will be for smaller amounts during the year.

## GENERAL SPECIFICATIONS COMMON TO ALL RADIOS:

1. The radios are to be synthesized and field programable. Programming shall include transmit and receive frequencies, tone squelch code (CTCSS) and ID/Emergency where applicable. Programming shall be done with an IBM compatible computer.

2. The radios shall meet the following specifications in the appropriate areas:

| Mil Spec 810C | Mil Spec 810D |
|---|---|
| Low pressure 500.1 | Low pressure 500.2 |
| High temperature 501.1 | High temperature 501.2 |
| Low temperature 502.1 | Low temperature 502.2 |
| Temp shock 503.1 | Temp shock 503.2 |
| Solar radiation 505.1 | Solar radiation 505.2 |
| Rain 506.1 | Rain 506.2 |
| Humidity 507.1 | Humidity 507.2 |
| Salt fog 509.1 | Salt fog 509.2 |
| Dust 510.1 | Dust 510.1 |
| Vibration 514.2 | Vibration 514.3 |
| Shock 516.2 | Shock 516.3 |

3. The radio with recommended battery but not including antenna shall not be exceed the following dimensions:

| | | MT | PCS | MPA | MPD |
|---|---|---|---|---|---|
| Height : | 7.77 " | 7.26 | 7.4 | 7.77 | 8.7/7.2 |
| Depth : | 1.50 " | 1.38 | 1.57 | 1.5 | 1.7 |
| Width : | 2.72 " | 2.71 | 2.8 | 2.72 | 2.7 |
| | 31.7 | 27.15 | 32.53 | 31.7 | 33.05 |

4. Total weight of the radio and recommended battery shall not exceed 25 oz. Carrying cases, speaker microphones do not count in this weight.

| MT | PCS | MPA | MPD |
|---|---|---|---|
| 24.1 oz. | 20 | 28.84 | 25/30 |

5. Volume and frequency controls will be mechanical rotary knobs. The squelch control may either be a knob for external adjustment or fixed internally with a pushbutton on the radio to open the squelch. The CTCSS and Emergency function will be a button or switch. Power switch may either be a part of the volume control or a separate switch. An indicator (either LCD or LED) will be visible to indicate a relative condition of the battery during transmit.

6. The radios will have capability of an external speaker/mic. It must be designed that the speaker/mic can remain on the radio when it is placed into the charger (vehicular or AC power).

Colean Chadwick 6312

7. Where applicable, the ID/Emergency shall be compatible with the existing GE-STAR format presently in use by the City. The emergency switch on the portable shall be a single switch that can activate the emergency function without any additional switch activations. The emergency alert shall be sent a minimum of 5 times. The ID shall be sent at the initiation of a transmission.

OK

8. Batteries for the radio shall be a slide or twist type of connection to the body of the radio. An enclosed battery within the radio is not acceptable. Batteries will be charged either on the radio or as a separate unit and will set or drop into a charger for recharging. Batteries will be capable of being recharged at a standard (16 hour) or rapid rate (1 or 3 hour).

9. The battery supplied with each radio will be designed to run the radio a 5-5-90 duty cycle over an 8 hour period.

10. There shall be a minimum of the following chargers available for these radios:

    Single unit 16 hour desktop charger
    Single unit rapid 1 or 3 hour desktop charger
    Multiple unit (5 or greater) rapid desktop charger
    Vehicular charger (without RF or Audio)

11. Radio shall be constructed in a manner to allow normal usage by Police, Fire, Animal Control and emergency response personnel in their job performance. This may subject the radio to abuse, moisture, rain, heat, extreme cold, etc. and shall continue to operate normally. Physical layout of the

radio shall be designed to allow normal operation with gloves, etc.

12. The radios must meet all applicable FCC regulations at the time of bid and delivery.

13. If a radio that is submitted for bid deviates from the below listed specifications, it must be stated with the bid when submitted.

14. If requested, a technical manual and radio must be available at no cost for inspection by the Chief Technician of the Ft. Wayne Communications Department. The radio should be similar to the model that is bid.

15. Delivery is desired within 3 weeks of receipt of a purchase order. Delivery will be FOB destination.

16. Warranty must be at least 90 days for labor and 1 year for parts. Local (City of Fort Wayne) service must be available for warranty work.

17. Replacement parts are to be available for at least 15 years.

18. Each shipment of radios shall include a printed manual for each 15 radios received.

<u>16 CHANNEL VHF RADIO TECHNICAL SPECIFICATIONS:</u>

1. The following minimum specifications must be met:

RECEIVER:

A. Frequency range is 146-162 mhz
B. 12 db SINAD is .35 uv
C. 20 db quieting is .4
D. EIA 2 signal selectivity is -70 db
E. EIA intermodulation is -70 db
F. Image & Spurious rejection is -70 db
G. Minimum audio output of 500 mw @ less than 5% distortion.
H. Specifications shall be maintained over 16 mhz

TRANSMITTER:

A. Frequency range is 146 - 162 mhz
B. Minimum RF output power is 5 watts
C. Conducted spurious & harmonic no greater than -60 db
D. FM noise no greater than -45 db
E. Distortion not greater than 5%
F. Specifications shall be maintained over 16 mhz

2. The radio shall have a minimum of 16 channels available for programming of radio frequency pairs.

3. G-Star ID & Emergency shall be an option on this radio and be compatible with the existing GE G-Star decoder presently in operation in the Ft. Wayne Communication Dept.

## 6 CHANNEL VHF RADIO TECHNICAL SPECIFICATIONS:

1. The following minimum specifications must be met:

RECEIVER:

A. Frequency range is 146-162 mhz
B. 12 db sinad is .25 uv
C. 20 db quieting is .35 uv
D. EIA 2 signal selectivity is -70 db
E. EIA intermodulation is -70 db
F. Spurious rejection is -70 db
G. Image rejection is -65 db
H. Minimum audio output of 500 mw @ less than 5% distortion.
I. Specifications shall be maintained over 6 mhz

TRANSMITTER:

A. Frequency range is 146 - 162 mhz
B. Minimum RF output power is 5 watts
C. Conducted spurious & harmonic no greater than -60 db
D. FM noise no greater than -45 db
E. Distortion not greater than 5%
F. Specifications shall be maintained over 6 mhz

2. The radio shall have 6 channels available for programming of radio frequency pairs.

## 6 CHANNEL UHF TECHNICAL SPECIFICATIONS:

1. The following minimum specifications must be met:

RECEIVER:

| | | MT | MPA | PCS |
|---|---|---|---|---|
| A. | Frequency range is 438 - 470 mhz | | | |
| B. | 12 db sinad is .35 uv | .35 | | .35 |
| C. | 20 db quieting is .50 uv | .50 | | |
| D. | EIA 2 signal selectivity is -70 db | 70 | | 70 |
| E. | EIA intermodulation is -68 db | 68 | | 70 |
| F. | Spurious rejection is -70 db | 70 | | 70 |
| G. | Image rejection is -65 db | 65 | | |
| H | Minimum audio output of 500 mw @ less than 5% distortion. | | | |
| I. | Specifications shall be maintained over 8 mhz | | | |

TRANSMITTER:

| | | |
|---|---|---|
| A. | Frequency range is 438 - 470 mhz | |
| B. | Minimum RF output power is 4 watts | |
| C. | Conducted spurious & harmonic no greater than -53 db | 53 |
| D. | FM noise no greater than -45 db | 45 |
| E. | Distortion not greater than 5% | 5 |
| F. | Specifications shall be maintained over 8 mhz | |

2. The radio shall have 6 channels available for programming of radio frequency pairs.

## RADIO AND OPTIONS COSTS

### 16 CHANNEL VHF PORTABLE RADIO:

| | | |
|---|---|---|
| Radio with battery, antenna, programmed | MT1000 | $ 842 |
| Speaker/Microphone with coiled cord & clip back | | 60 |
| Spare battery | (25+) | 43.70 |
| Carrying case (leather - belt loop) | | 43 |
| Carrying case (other - belt loop) | (belt clip) | 14 |
| 16 hour desktop charger | (compact) | 22 |
| 1 or 3 hour desktop charger | (1-hour) | 86 |
| Multiple unit charger | (6-unit/1-hour) | 507 |
| Vehicular charger (no audio or RF) | (includes cable) | 177 |
| Vehicular charge pack (with 5/watt rx audio, palm microphone and rf & antenna connection) | (12 watt spkr.) | 345 |
| ID & Emergency signalling | | 150 |
| Programming software (5 1/4" disk) | | 200 |
| Programming interface (PC-XT compatible) | | 405 |

(RIB+Pwr. Supply+Cables) (Currently in City inventory)

Other and optional accessories:

| | |
|---|---|
| Additional channel capabilities cost | -0- |
| Scan, Transmit Timer, Built-in Page, Weather | -0- |
| Full-size 16-hr. charger | 56 |
| Belt-clip carrying holder (3" clip) | 17 |
| Button-back kit + belt loop | 20 |
| Leather case with swivel | $ 47 |
| Cloning Cable | $ 43 |

For a 99-channel version, add $160.
For a 2-year warranty, add $55. (Standard warranty is 1-year parts & 4 months labor.)
For a multi-unit charger wall mount kit, add $15.



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NOTE: ALL ACCESSORY AND OPTION PRICING IS IDENTICAL TO THAT QUOTED ON PAGE 7.

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## RADIO AND OPTIONS COSTS

### 6 CHANNEL UHF PORTABLE RADIO:

| | |
|---|---|
| Radio with battery, antenna, programmed ..... HT600 | $ 628 |
| Speaker/Microphone with coiled cord & clip back ... | |
| Spare battery ..... | |
| Carrying case (leather - belt loop) ..... | |
| Carrying case (other - belt loop) ..... | |
| 16 hour desktop charger ..... | |
| 1 or 3 hour desktop charger ..... | |
| Multiple unit charger ..... | |
| Vehicular charger (no audio or RF) ..... | |
| Vehicular charge pack (with 5 watt rx audio, palm microphone and rf & antenna connection) ..... | |
| Programming software (5 1/4" disk) ..... | |
| Programming interface (PC-XT compatible) ..... | |

Other and optional accessories:

| | |
|---|---|
| Additional channel capabilities cost ..... | |
| DTMF encoder ..... | $ 86 |
| _____ ..... | |
| _____ ..... | |
| _____ ..... | |
| _____ ..... | |
| _____ ..... | |

TERM OF AGREEMENT FROM TIME OF AWARD THRU DECEMBER 31, 1990

## RADIO AND OPTIONS COSTS

### 6 CHANNEL VHF PORTABLE RADIO:

| | |
|---|---|
| Radio with battery, antenna, programmed HT600 | $ 558 |
| Speaker/Microphone with coiled cord & clip back | 60 |
| Spare battery (25+) | 44.19 |
| Carrying case (leather - belt loop) | 43 |
| Carrying case (other - belt loop) (belt clip) | 14 |
| 16 hour desktop charger (compact) | 22 |
| 1 or 3 hour desktop charger (1-hour) | 86 |
| Multiple unit charger (6-unit/1-hour) | 507 |
| Vehicular charger (no audio or RF) (includes cable) | 177 |
| Vehicular charge pack (with 5 watt rx audio, palm microphone and rf & antenna connection) 12 watt speaker | 345 |
| Programming software (5 1/4" disk) | 200 |
| Programming interface (PC-XT compatible) (currently in city inventory) | 405 |

(RIB + Pwr. Supply + Cables) (currently in city inventory)

### Other and optional accessories:

| | |
|---|---|
| Additional channel capabilities cost | -0- |
| Transmit Timer | -0- |
| Full-size 16-hour charger | 56 |
| Belt-clip carrying holder | 17 |
| Button-back kit + belt loop | 20 |
| Leather case with swivel | 47 |
| Cloning Cable | $ 43 |

For a 2-channel version of the HT600, deduct $65.
For a 2-year warranty, add $49, Standard warranty is 1-year parts & 4 months labor.
For a wall mount kit on the multi-unit charger, add $15.

(Note: Paging can be programmed into the HT600.)



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# SERVICE AIDS

## HT600 AND MT1000 SERIES "HANDIE-TALKIE" RADIOS

All items can be used to service both radios unless noted.

The following service aids are available through Motorola Communications & Electronics Parts to facilitate servicing HT600 and MT1000 series HANDIE-TALKIE radios. Please contact your AREA Parts Manager for price and delive

| Model No. | Description |
|---|---|
| RTL-4226B | BATTERY ELIMINATOR – Replaces the battery pack during radio servicing of both radio models. The power supply input is over-voltage protected to 12VDC maximum supply voltage. Reverse supply polarity protection and input fuse protection are also provided. |
| 15-80368B62 | BATTERY ADAPTER – Replaces the radio housing during servicing of both radio models. The Battery Adapter is screw-mounted to the base of the radio frame providing an easy slide-on mount for a battery or the RTL-4226B Battery Eliminator. With the Battery Adapter in place, electrical test points located on the back of the radio RF board are accessible. |
| RTX-4005B | PORTABLE PRODUCTS TEST SET – Provides the capability for testing many transmitter and receiver functions. Transmitter modulation and keying can be simulated and receiver parameters can be tested without opening up the radio. The Test Set is used in conjunction with the RTK-4205A Program/Test Cable. |
| RPX-4665A | Field MOD KIT/RTX4005A – Allows a quick field modification of the RTX-4005A Portable Products Test Set to provide operation with both radios. |
| RTL-4234A (For HT600 only) | CONTROLLER FLEX EXTENDER FIXTURE – Allows access to all electrical points on the HT600 Controller Flex and the interior of the RF board, for troubleshooting purposes. The Controller Flex is removed from the flex carrier assembly and then externally mounted on the fixture's P.C. board. Electrical interconnect between the fixture and the radio RF board is provided through two ribbon cables. |
| RTL-4234B (HT600 and MT1000) | CONTROLLER FLEX EXTENDER FIXTURE – Allows access to all electrical points on the HT600 and MT1000 Controller Flex and the interior of the RF board, for troubleshooting purposes. The Controller Flex is removed from the flex carrier assembly and then externally mounted on the fixture's P.C. board. Electrical interconnect between the fixture and the radio RF board is provided through two ribbon cables. |
| 01-80370B92 | CONTROLLER FLEX HOLD DOWN FIXTURE – Provides a secure mount for the Controller Flex when removing and replacing I.C. chip carriers and chip components using the RSX-4057A I.C. Removal/Reflow Station. |
| 66-05106N01 | TUNING TOOL – Required for adjustment of tunable coils, preselector tuning, reference oscillator frequency, and trimmer capacitors. |
| NKN-6376A | CLONING CABLE – Allows an HT600 or MT1000 radio to be duplicated from a Master radio by transfering programmed data from one radio to another. The Cloning Cable is non-polarized and has a thumbscrew-mounted connector at each end, allowing for easy connect/disconnect. |

**Items listed below are required for programming MT1000 portable.**

| Model No. | Description |
|---|---|
| RTK-4205A | PROGRAM/TEST CABLE – Provides connection to the RIB computer (01-80353A74) and to the RTX-4005E ucts Test Set for programming and test and MT1000 radio models. The Progra necessary for changing radio frequen tuning parameters in conjunction with MT1000 Programmer. It also permits radio's receiver and transmitter param- |
| | COMPUTER – The HT600 and MT10 software is designed to operate on th- Personal System/2 Computers. IBM DO Asynchronous Communications Adap bytes of RAM are required. |
| 01-80353A74 | RADIO INTERFACE BOX (RIB) shifter to cable communications be and the computer's Asynchronous C Adapter. |
| 01-80357A57 | WALL-MOUNTED POWER SUPPLY ply power to the RIB (01-80353A74 |
| 30-80369B71/B72 | COMPUTER INTERFACE CABLE nect the computer's Asynchronous C Adapter to the RIB (01-80353A74). 01-80357A44. Use the 30-8036 Cable for the IBM AT. |
| RVN-4005B (HT600 only) | PROGRAMMER/TUNER SOFTWA DISK – Operates on computers wit disk drives. This software provides t capability of changing the radio's fre and electronically tunable paramete |
| RVN-4006B (HT600 only) | PROGRAMMER/TUNER SOFTWA DISK – Operates on computers wit disk drives. This software provides t capability of changing the radio's fre and electronically tunable paramete |
| RVN-4017A (MT1000 only) | RADIO SERVICE SOFTWARE ON Operates on computers with 5¼ drives. This software provides the us bility of changing the radio's frequen electronically tunable parameters. |
| RVN4018A (MT1000 only) | RADIO SERVICE SOFTWARE ON Operates on computers with 3½ drives. This software provides the us bility of changing the radio's frequen electronically tunable parameters. |

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SAFECO

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GENERAL INSURANCE COMPANY OF AMERICA
FIRST NATIONAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

BOND NO. 5133468-3347

# BID BOND

Approved by The American Institute of Architects,
A.I.A. Document No. A-310 (Feb. 1970 Edition)

*KNOW ALL BY THESE PRESENTS,* That we, MOTOROLA COMMUNICATIONS & ELECTRONICS, INC.
1301 E. Algonquin Road, Schaumburg, Illinois 60172

as Principal, hereinafter called the Principal, and the SAFECO INSURANCE COMPANY OF AMERICA, of Seattle, Washington, a corporation duly organized under the laws of the State of Washington, as Surety, hereinafter called the Surety, are held and firmly bound unto City of Ft. Wayne, Indiana as Obligee, hereinafter called the Obligee, in the sum of 5% of bid amount Dollars ($_____), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

*WHEREAS,* the Principal has submitted a bid for providing portable radio equipment

*NOW, THEREFORE,* if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 8th day of January, 1990.

Donna M. Landacre
Witness

Elizabeth Tuck
Witness

MOTOROLA COMMUNICATIONS & ELECTRONICS, INC. (Seal)
Principal

James Kelly
Title

SAFECO INSURANCE COMPANY OF AMERICA
By Rose Mary Fanizio
ROSE MARY FANIZIO Attorney-in-Fact

S-54 R6 1/75

SAFECO

# POWER OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

No. 4418

**KNOW ALL BY THESE PRESENTS:**

That **SAFECO INSURANCE COMPANY OF AMERICA** and **GENERAL INSURANCE COMPANY OF AMERICA**, each a Washington corporation, does each hereby appoint

----------ROSE MARY FANIZIO----------

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

**IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA** and **GENERAL INSURANCE COMPANY OF AMERICA** have each executed and attested these presents

this 3rd day of November, 19 80.

BOH A. DICKEY, SECRETARY

J. W. CANNON, PRESIDENT

---

**CERTIFICATE**

Extract from the By-Laws of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA:**

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA** adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

(i) The provisions of Article V, Section 13 of the By-Laws, and

(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and

(iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Boh A. Dickey, Secretary of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA**, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

**IN WITNESS WHEREOF,** I have hereunto set my hand and affixed the facsimile seal of said corporation

SAFECO INSURANCE COMPANY OF AMERICA — CORPORATE SEAL — 1953 — STATE OF WASHINGTON

GENERAL INSURANCE COMPANY OF AMERICA — CORPORATE SEAL — 1923 — STATE OF WASHINGTON

this 8th day of January, 19 90.

S-1787 9/85

# HT600 MIL STD TESTING
# 810C - 810D

| TEST | MOTOROLA HT600 SERIES | CERTIFYING AGENCY | CERTIFICATION NUMBER | DATE OF CERTIFICATION |
|---|---|---|---|---|
| **810D** | | | | |
| LOW PRESSURE 500.2/I | PASSED | * 1 | 75516 | JULY, 1987 |
| HIGH TEMPERATURE 501.2/I | PASSED | 1 | 75516 | AUG., 1987 |
| HIGH TEMPERATURE 501.2/II | PASSED | 1 | 75516 | AUG., 1987 |
| LOW TEMPERATURE 502.2/I | PASSED | 1 | 75516 | AUG., 1987 |
| LOW TEMPERATURE 502.2/II | PASSED | 1 | 75516 | AUG., 1987 |
| TEMPERATURE SHOCK 503.2/I | PASSED | 1 | 75516 | AUG., 1987 |
| SOLAR RADIATION 505.2/I | PASSED | 2 | D-1971A | JAN., 1987 |
| RAIN (BLOWING) 506.2/I | PASSED | 1 | 75516 | AUG., 1987 |
| HUMIDITY 507.2/II | PASSED | 2 | D-1971D | JAN., 1987 |
| SALT FOG 509.2/I | PASSED | 1 | 75516 | JULY, 1987 |
| DUST 510.2/I | PASSED | 2 | D-1971C | JAN., 1987 |
| VIBRATION 514.3/I | PASSED | 1 | 75516 | JULY, 1987 |
| SHOCK 516.3/I | PASSED | 1 | 75516 | JULY, 1987 |
| SHOCK 516.3/IV | PASSED | 1 | 75516 | JULY, 1987 |
| SHOCK 516.3/VI | PASSED | 1 | 75516 | JULY, 1987 |
| **810C** | | | | |
| LOW PRESSURE 500.1/I | PASSED | 1 | 75516 | MAR., 1987 |
| HIGH TEMPERATURE 501.1/I | PASSED | 1 | 75516 | MAR., 1987 |
| HIGH TEMPERATURE 501.1/II | PASSED | 1 | 75516 | MAR., 1987 |
| LOW TEMPERATURE 502.1/I | PASSED | 1 | 75516 | JULY, 1987 |
| TEMPERATURE SHOCK 503.1/I | PASSED | 1 | 75516 | MAR., 1987 |
| SOLAR RADIATION 505.1/I | PASSED | 2 | D-1971 | JAN., 1987 |
| RAIN (BLOWING) 506.1/I | PASSED | 1 | 75516 | AUG., 1987 |
| HUMIDITY 507.1/II | PASSED | 1 | 75516 | MAR., 1987 |
| SALT FOG 509.1/I | PASSED | 1 | 75516 | MAR., 1987 |
| DUST 510.1/I | PASSED | 2 | D-1971B | JAN., 1987 |
| VIBRATION 514.2/VIII | PASSED | 1 | 75516 | MAR., 1987 |
| VIBRATION 514.2/X | PASSED | 1 | 75516 | MAR., 1987 |
| SHOCK 516.2/I | PASSED | 1 | 75516 | JULY, 1987 |
| SHOCK 516.2/II | PASSED | 1 | 75516 | JULY, 1987 |
| SHOCK 516.2/V | PASSED | 1 | 75516 | JULY, 1987 |

* 1 - CONTINENTAL TESTING LABORATORIES, FERN PARK, FLORIDA, IS AN APPROVED 810C/810D TEST FACILITY. CERTIFICATES ARE AVAILABLE UPON REQUEST

2 - ENVIRONMENTAL TESTING LABORATORY, DALLAS, TEXAS, IS AN APPROVED 810C/810D TEST FACILITY. CERTIFICATES ARE AVAILABLE UPON REQUEST

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | March 24, 1987 |
| **TEST:** | LOW PRESSURE (ALTITUDE) | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 500.1, Procedure I. | |
| **PROCEDURE:** | The radio was placed in an altitude chamber and subjected to a simulated altitude of 15,000 feet for one hour as described in Method 500.1, Procedure I, of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 77516 | July 16, 1987 |
| **TEST:** | LOW PRESSURE (ALTITUDE) | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 500.2, Procedure I. | |
| **PROCEDURE:** | The radio was placed in an altitude chamber and subjected to 15,000 feet altitude for one hour as described in Method 500.2, Procedure I of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Project Engineer

Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | March 24, 1987 |
| **TEST:** | HIGH TEMPERATURE. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 501.1, Procedures I and II. | |
| **PROCEDURE:** | The radio was placed in a high temperature chamber and subjected to high temperature as described in Method 501.1, Procedure I (48 hours) and Procedure II (36 hours) of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

**CERTIFICATION:** NO. 75516 August 17, 1987

**TEST:** HIGH TEMPERATURE.

**MODEL SERIES:** Motorola HT600 FM Handie Talkie portable radio series.

**SPECIFICATION:** MIL-STD-810D, Method 501.2, Procedures I and II.

**PROCEDURE:** The radio was placed in a high temperature chamber and subjected to seven days of storage temperature and three days of operation temperature as described in Method 501.2, Procedures I and II of MIL-STD-810D.

**RESULTS:** The test unit met all test requirements as specified in MIL-STD-810D.

**CERTIFICATION:** This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS.

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward Michalek
Project Engineer

Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | July 16, 1987 |
| **TEST:** | LOW TEMPERATURE. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 502.1, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a low temperature chamber and subjected to 24 hours of low temperature as described in Method 502.1, Procedure I of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | August 17, 1987 |
| **TEST:** | LOW TEMPERATURE. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 502.2, Procedure I, Category C2 and Procedure II, Category C1. | |
| **PROCEDURE:** | The radio was placed in a low temperature chamber and subjected to cycled low temperature as described in Method 502.2, Procedures I and II (three days each) of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | March 24, 1987 |
| **TEST:** | TEMPERATURE SHOCK. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 503.1, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a thermal shock chamber and subjected to 24 hours of thermal shock as described in Method 503.1, Procedure I, of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | August 17, 1987 |
| **TEST:** | TEMPERATURE SHOCK. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 503.2, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a thermal shock chamber and subjected to 42 hours of thermal shock as described in Method 503.2, Procedure I, of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES.

Edward Michalek
Project Engineer

Joseph M. Sini
Quality Assurance

ENVIRONMENTAL TESTING LABORATORY, INC.
2718 FOREST LANE
DALLAS, TEXAS 75234
(214) 247-9657

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. D-1971 | January 26, 1987 |
| **TEST:** | SOLAR RADIATION. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 505.1, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a solar radiation chamber and subjected to 48 hours of solar radiation as described in Method 505.1, Procedure I, of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
ENVIRONMENTAL TESTING LABORATORY, INC.

Joe W. Richard
President

ENVIRONMENTAL TESTING LABORATORY, INC.
2718 FOREST LANE
DALLAS, TEXAS 75234
(214) 247-9657

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. D-1971A | January 26, 1987 |
| **TEST:** | SOLAR RADIATION. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 505.2, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a solar chamber and sujbected to three (3) 24 hour cycles of solar radiation as described in Method 505.2, Procedure I, Table 505.2-I, Figure 505.2-1 of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
ENVIRONMENTAL TESTING LABORATORY, INC.

Joe W. Richard
President

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

**CERTIFICATION:** NO. 75516 August 17, 1987

**TEST:** RAIN (BLOWING).

**MODEL SERIES:** Motorola HT600 FM Handie Talkie portable radio series.

**SPECIFICATION:** MIL-STD-810C, Method 506.1, Procedure I.

**PROCEDURE:** The radio was placed in a rain test area and subjected to two and one-half hours of rain and blowing wind as described in Method 506.1, Procedure I of MIL-STD-810C.

**RESULTS:** The test unit met all test requirements as specified in MIL-STD-810C.

**CERTIFICATION:** This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS.

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | August 17, 1987 |
| **TEST:** | RAIN (BLOWING). | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 506.2, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a rain test area and subjected to two and one-half hours of rain and blowing wind as described in Method 506.2, Procedure I of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Project Engineer

Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | March 24, 1987 |
| **TEST:** | HUMIDITY. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 507.1, Procedure II. | |
| **PROCEDURE:** | The radio was placed in a humidity chamber and subjected to 13 days of humidity as described in Method 507.1, Procedure II of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specifieid in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

ENVIRONMENTAL TESTING LABORATORY, INC.
2718 FOREST LANE
DALLAS, TEXAS 75234
(214) 247-9657

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. D-1971D | January 26, 1987 |
| **TEST:** | HUMIDITY. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 507.2, Procedure II, Cycle 5. | |
| **PROCEDURE:** | The radio was placed in a humidity chamber and subjected to fifteen (15) 24 hour cycles of humidity as described in Method 507.2, Procedure II, Cycle 5 of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specifieid in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
ENVIRONMENTAL TESTING LABORATORY, INC.

Joe W. Richard
President

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | March 24, 1987 |
| **TEST:** | SALT FOG. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 509.1, Procedure I. | |
| **PROCEDURE:** | The radio, less the battery pack, was placed in a salt fog chamber and subjected to 48 hours of salt fog as described in Method 509.1, Procedure I of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | July 16, 1987 |
| **TEST:** | SALT FOG. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 509.2, Procedure I. | |
| **PROCEDURE:** | The radio, less the battery pack, was placed in a salt fog chamber and subjected to 48 hours of salt fog as described in Method 509.2, Procedure I of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

ENVIRONMENTAL TESTING LABORATORY, INC.
2718 FOREST LANE
DALLAS, TEXAS 75234
(214) 247-9657

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. D-1971B | January 26, 1987 |
| **TEST:** | SAND AND DUST. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 510.1, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a sand and dust chamber and subjected to 28 hours of sand and dust as described in Method 510.1, Procedure I, of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
ENVIRONMENTAL TESTING LABORATORY, INC.

Joe W. Richard
President

ENVIRONMENTAL TESTING LABORATORY, INC.
2718 FOREST LANE
DALLAS, TEXAS 75234
(214) 247-9657

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. D-1971C | January 26, 1987 |
| **TEST:** | SAND AND DUST. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 510.2, Procedure I. | |
| **PROCEDURE:** | The radio was placed in a sand and dust chamber and subjected to 30 hours of sand and dust as described in Method 510.2, Procedure I of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
ENVIRONMENTAL TESTING LABORATORY, INC.

Joe W. Richard
President

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

**CERTIFICATION:** NO. 75516 March 24, 1987

**TEST:** VIBRATION.

**MODEL SERIES:** Motorola HT600 FM Handie Talkie portable radio series.

**SPECIFICATION:** MIL-STD-810C, Method 514.2, Procedures VIII and X.

**PROCEDURE:** The radio was placed on the vibration table and subjected to sinusoidal vibration as described in Method 514.2, Procedures VIII (Curve W) and X (Curve AX) of MIL-STD-810C.

**RESULTS:** The test unit met all test requirements as specified in MIL-STD-810C.

**CERTIFICATION:** This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS.

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward Michalek
Project Engineer

Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831- 2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | July 16, 1987 |
| **TEST:** | VIBRATION. | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 514.3, Procedure I, Category 8. | |
| **PROCEDURE:** | The radio was placed on the vibration table and subjected to random vibration as described in Method 514.3, Procedure I, Category 8, of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward Michalek
Project Engineer

Joseph M Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | July 16, 1987 |
| **TEST:** | SHOCK | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810C, Method 516.2, Procedures I, II and V. | |
| **PROCEDURE:** | The radio was placed on the shock table and subjected to basic design shock, transit drop and bench handling as described in Method 516.2, Procedures I, II and V of MIL-STD-810C. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810C. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

CONTINENTAL TESTING LABORATORIES
8385 SOUTH U.S. HWY. 17-92
FERN PARK, FLORIDA 32730
(305) 831-2700

# STATEMENT OF QUALITY FOR

| | | |
|---|---|---|
| **CERTIFICATION:** | NO. 75516 | July 16, 1987 |
| **TEST:** | SHOCK | |
| **MODEL SERIES:** | Motorola HT600 FM Handie Talkie portable radio series. | |
| **SPECIFICATION:** | MIL-STD-810D, Method 516.3, Procedures I, IV and VI. | |
| **PROCEDURE:** | The radio was placed on the shock table and subjected to functional shock, transit drop and bench handling as described in Method 516.3, Procedures I, IV and VI of MIL-STD-810D. | |
| **RESULTS:** | The test unit met all test requirements as specified in MIL-STD-810D. | |
| **CERTIFICATION:** | This letter is to certify that the above test was run in accordance with applicable specification and that all instrumentation was in calibration and is traceable to the NATIONAL BUREAU OF STANDARDS. | |

Respectfully,
CONTINENTAL TESTING LABORATORIES

Edward P. Michalek
Edward P. Michalek
Project Engineer

Joseph M. Sini
Joseph M. Sini
Quality Assurance

Read the first time in full and on motion by Henry, seconded by Talarico, and duly adopted, read the second time by title and referred to the Committee on Finance (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Conference Room 128, ~~City-County~~ Building, Fort Wayne, Indiana, on _____, the _____, day of _____, 19____, at _____ o'clock _____.M.,E.S.T.

DATED: 3-13-90

Sandra E. Kennedy
SANDRA E. ~~KENNEDY~~, CITY CLERK

Read the third time in full and on motion by Henry, seconded by Bradbury, and duly adopted, placed on its passage. PASSED ~~LOST~~ by the following vote:

| | AYES | NAYS | ABSTAINED | ABSENT |
|---|---|---|---|---|
| TOTAL VOTES | 8 | | | 1 |
| BRADBURY | ✓ | | | |
| BURNS | ✓ | | | |
| EDMONDS | ✓ | | | |
| GiaQUINTA | ✓ | | | |
| HENRY | ✓ | | | |
| LONG | | | | ✓ |
| REDD | ✓ | | | |
| SCHMIDT | ✓ | | | |
| TALARICO | ✓ | | | |

DATED: 3-27-90

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ANNEXATION)~~ (APPROPRIATION) ~~(GENERAL)~~ (SPECIAL) (~~ZONING~~ MAP) ORDINANCE ~~RESOLUTION~~ NO. R-67-90 on the 27th day of March, 1990,

ATTEST: Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

SEAL
Charles B. Redd
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 28th day of March, 1990, at the hour of 11:30 o'clock A.M.,E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 29th day of March, 1990, at the hour of 11:45 o'clock A.M.,E.S.T.

PAUL HELMKE, MAYOR

DIGEST SHEET

S-90-03-04

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of Reference No. 1410 for the purchase of portable two (2) way radios for various Departments through the Communications Department for 1990. The cost reflects the lowest and most responsible of two (2) vendors.

EFFECT OF PASSAGE: These will be used to replace old radios or update radios.

EFFECT OF NON-PASSAGE: Radios will not be kept up-to-date. Will not be able to replace broken radios.

MONIES INVOLVED: Motorola C & E $125,000.00 +/-

PRICE AGREEMENT:

PURCHASE ORDER: Yes

SOURCE OF FUNDING: Communications 010-018-OFFC-4299

PRIOR APPROVAL: DATE:
(IF APPLICABLE)

BILL NO. S-90-03-04

REPORT OF THE COMMITTEE ON FINANCE

THOMAS C. HENRY, CHAIRMAN
DONALD J. SCHMIDT, VICE CHAIRMAN
BRADBURY, BURNS, GiaQUINTA

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving the awarding of Reference #1410 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and MOTOROLA C&E, INC. for the Fort Wayne Communications Department

HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) (~~RESOLUTION~~)

| DO PASS | DO NOT PASS | ABSTAIN | NO REC |
|---|---|---|---|
| D Schmidt | | | |
| C R Edmonds | | | |
| | | | |
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| | | | |

DATED: 3-27-90.

Sandra E. Kennedy
City Clerk